

# PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents  
United States Patent and Trademark  
Office  
Box PCT  
Washington, D.C.20231  
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 15 May 2000 (15.05.00)	
International application No. PCT/US99/22350	Applicant's or agent's file reference 500-68 PCT
International filing date (day/month/year) 28 September 1999 (28.09.99)	Priority date (day/month/year) 01 October 1998 (01.10.98)
Applicant HEMSEN, Steven, J.	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

10 April 2000 (10.04.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

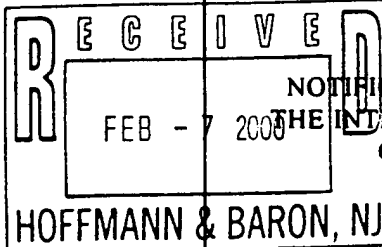
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Pascal Piriou Telephone No.: (41-22) 338.83.38
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# PATENT COOPERATION TREATY

JAN 24 2000

From the INTERNATIONAL SEARCHING AUTHORITY

To: DANIEL A. SCOLA, JR.  
HOFFMANN & BARON, LLP  
6900 JERICHO TURNPIKE  
SYOSSET NY 11791



PCT

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT  
OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing  
(day/month/year) **19 JAN 2000**

Applicant's or agent's file reference  
500-68 PCT

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.  
PCT/US99/22350

International filing date  
(day/month/year)  
28 SEPTEMBER 1999

Applicant  
LOCTITE CORPORATION

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.  
**Filing of amendments and statement under Article 19:**  
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):  

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
 34, chemin des Colombettes  
 1211 Geneva 20, Switzerland  
 Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.
2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
 

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. **Further action(s):** The applicant is reminded of the following:  

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

KATHERINE A. BAREFORD

Telephone No. (703) 308-0661

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 500-68 PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US99/22350	International filing date (day/month/year) 28 SEPTEMBER 1999	(Earliest) Priority Date (day/month/year) 01 OCTOBER 1998
Applicant LOCTITE CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (See Box I).
2. ☐ Unity of invention is lacking (See Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
  - ☐ filed with the international application.
  - ☐ furnished by the applicant separately from the international application.
    - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
  - ☐ transcribed by this Authority.
4. With regard to the title,
  - ☒ the text is approved as submitted by the applicant.
  - ☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,
  - ☐ the text is approved as submitted by the applicant.
  - ☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:  
Figure No. 3
  - ☐ as suggested by the applicant.
  - ☒ because the applicant failed to suggest a figure.
  - ☐ because this figure better characterizes the invention.

☐ None of the figures.

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

The abstract is too long (PCT Rule 8.1(b)). The abstract must be less than 150 words, or 200 words when no Figure is to be published.

## NEW ABSTRACT

An impregnation process is employed in a system (30) using a sequence of mobile impregnation processing vessels (31) which are transported to a series of processing stations (36,38,40,42), each of which performs a specific step in an impregnation process. At least one porous article (2) is retained in each of said vessels(31) along with a flowable impregnating composition (33) therein. The vessels (31) are sequentially directed along with the porous articles (2) and flowable composition (33) therein to at least one selected station (36,38,40,42) chosen from a series of stations. Such processing stations (36,38,40,42) can include a vacuum station (36); a pressurization station (38); an independent impregnant retrieval system (40) in which residual impregnant is retrieved; and a centrifuging station (42) for removing excess impregnant. A de-aeration system (34) can also be provided to de-aerate the composition (33) prior to use.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US99/22350

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) :B05D 1/18, 3/00; B05C 3/00, 3/09

US CL :427/294, 295, 350, 430.1, 435; 118/50, 52, 421

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 427/294, 295, 350, 430.1, 435; 118/50, 52, 421

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,022,343 A (FUJIKAWA et al) 11 June 1991, col. 5, lines 15-65, col. 11, line 1 through col. 13, line 65, and figure 3.	1-4, 9-10, 18-22, 25, 27, 31, 33 ----- 1-41
Y	US 4,520,045 A (KUTSUNA et al) 28 May 1985, col.4, line 55 through col. 5, line 55 and figures 2-3.	1-41
Y	US 4,311,735 A (YOUNG) 19 January 1982, col. 1, line 64 through col. 3, line 65.	1-41
A	US 4,236,484 A (LAPP et al) 02 December 1980, col.1, line 50 through col. 2, line 10.	1-41

☐

Further documents are listed in the continuation of Box C.

☐

See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*B* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*G* document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means	
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

09 DECEMBER 1999

Date of mailing of the international search report

19 JAN 2000

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

KATHERINE A. BAREFORD

Telephone No. (703) 308-0661

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended ?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

**When ?** Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

**How ?** Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

#### What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ US

# PCT

## DEMAND

### CHAPTER II

under Article 31 of the Patent Cooperation Treaty:  
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only	
Identification of IPEA	Date of receipt of DEMAND
<b>Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION</b>	
Applicant's or agent's file reference 500-68 PCT	
International application No. PCT/US99/22350	International filing date (day/month/year) 28 SEPT 1999 ( 28.09.99 )
(Earliest) Priority date (day/month/year) 01 OCT 1998 ( 01.10.98 )	
Title of invention MOBILE VESSEL METHOD AND SYSTEM FOR IMPREGNATING POROUS ARTICLES	
<b>Box No. II APPLICANT(S)</b>	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	
LOCTITE CORPORATION 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	
Telephone No.: 860-571-5100	
Facsimile No.: 860-571-5028	
Teleprinter No.:	
State (that is, country) of nationality: US	State (that is, country) of residence: US
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	
State (that is, country) of nationality:	State (that is, country) of residence:
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	
State (that is, country) of nationality:	State (that is, country) of residence:
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	
State (that is, country) of nationality:	State (that is, country) of residence:
<input type="checkbox"/> Further applicants are indicated on a continuation sheet.	

**Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**The following person is ☒ agent ☐ common representativeand ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.☐ is hereby appointed and any earlier appointment of (an) agent(s) /common representative is hereby revoked.☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*SCOLA, Daniel A. Jr., et al.  
HOFFMANN & BARON, LLP  
6900 Jericho Turnpike  
Syosset, New York 11791  
USA

Telephone No.:

973-331-1700

Facsimile No.:

973-331-1717

Teleprinter No.:

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.**Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION****Statement concerning amendments:\***

1. The applicant wishes the international preliminary examination to start on the basis of:

☒ the international application as originally filedthe description ☒ as originally filed☐ as amended under Article 34the claims ☒ as originally filed☐ as amended under Article 19 (together with any accompanying statement)☐ as amended under Article 34the drawings ☒ as originally filed☐ as amended under Article 342. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

\* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

**Language for the purposes of international preliminary examination: English**☒ which is the language in which the international application was filed.☐ which is the language of a translation furnished for the purposes of international search.☐ which is the language of publication of the international application.☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.**Box No. V ELECTION OF STATES**The applicant hereby elects all eligible States *(that is, all States which have been designated and which are bound by Chapter II of the PCT)*

excluding the following States which the applicant wishes not to elect:



**Box No. VI CHECK LIST**

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- |  |   |        |
|--|---|--------|
| 1. translation of international application                              | : | sheets |
| 2. amendments under Article 34   | : | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | sheets |
| 4. copy (or, where required, translation) of statement under Article 19  | : | sheets |
| 5. letter  | : | sheets |
| 6. other (specify)   | : | sheets |

For International Preliminary Examining Authority use only

received not received

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

The demand is also accompanied by the item(s) marked below:

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> fee calculation sheet                             | 4. <input type="checkbox"/> statement explaining lack of signature                                  |
| 2. <input type="checkbox"/> separate signed power of attorney                            | 5. <input type="checkbox"/> nucleotide and or amino acid sequence listing in computer readable form |
| 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 6. <input checked="" type="checkbox"/> other (specify): Transmittal Letter                          |

**Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).

  
Kellyanne Merkel, Esq.  
Attorney for Applicant

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

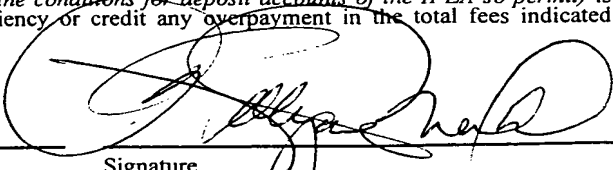
For International Bureau use only

Demand received from IPEA on:

## PCT

## FEE CALCULATION SHEET

## Annex to the Demand for international preliminary examination

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">International application No.</td> <td style="width: 50%;">PCT/US99/22350</td> </tr> <tr> <td>Applicant's or agent's file reference</td> <td>500-68 PCT</td> </tr> </table>	International application No.	PCT/US99/22350	Applicant's or agent's file reference	500-68 PCT	<div style="border: 1px solid black; padding: 5px; text-align: center;">For International Preliminary Examining Authority use only</div> <div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div>														
International application No.	PCT/US99/22350																		
Applicant's or agent's file reference	500-68 PCT																		
Applicant <b>LOCTITE CORPORATION</b>																			
<b>Calculation of prescribed fees</b>  <table style="width: 100%;"> <tr> <td style="width: 60%;">1. Preliminary examination fee .....</td> <td style="width: 20%; text-align: right;">490.00</td> <td style="width: 20%; text-align: center;">P</td> </tr> <tr> <td colspan="3" style="height: 20px;"></td> </tr> <tr> <td>2. Handling fee <i>(Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)</i> .....</td> <td style="text-align: right;">153.00</td> <td style="text-align: center;">H</td> </tr> <tr> <td colspan="3" style="height: 20px;"></td> </tr> <tr> <td>3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box .....</td> <td style="text-align: right; border: 1px solid black;">643.00</td> <td></td> </tr> <tr> <td></td> <td style="text-align: right; border: 1px solid black;">TOTAL</td> <td></td> </tr> </table>		1. Preliminary examination fee .....	490.00	P				2. Handling fee <i>(Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)</i> .....	153.00	H				3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box .....	643.00			TOTAL	
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2. Handling fee <i>(Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)</i> .....	153.00	H																	
3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box .....	643.00																		
	TOTAL																		
<b>Mode of Payment</b>  <table style="width: 100%;"> <tr> <td><input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)</td> <td><input type="checkbox"/> cash</td> </tr> <tr> <td><input checked="" type="checkbox"/> cheque</td> <td><input type="checkbox"/> revenue stamps</td> </tr> <tr> <td><input type="checkbox"/> postal money order</td> <td><input type="checkbox"/> coupons</td> </tr> <tr> <td><input type="checkbox"/> bank draft</td> <td><input type="checkbox"/> other (specify):</td> </tr> </table>		<input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> cash	<input checked="" type="checkbox"/> cheque	<input type="checkbox"/> revenue stamps	<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons	<input type="checkbox"/> bank draft	<input type="checkbox"/> other (specify):										
<input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> cash																		
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<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons																		
<input type="checkbox"/> bank draft	<input type="checkbox"/> other (specify):																		
<b>Deposit Account Authorization</b> <i>(this mode of payment may not be available at all IPEAs)</i>  The IPEA/ <u>US</u> <input type="checkbox"/> is hereby authorized to charge the total fees indicated above to my deposit account.  <input checked="" type="checkbox"/> <i>(this check-box may be marked only if the conditions for deposit accounts of the IPEA so permit)</i> is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.																			
08-2461 Deposit Account Number	10 APRIL 2000 Date (day/month/year)	 Signature																	

**RECEIVED**  
**PATENT COOPERATION TREATY**  
 JUL 31 2000

**RECEIVED**  
 JUL 2 2000  
 HOFFMANN & BARON

From the  
 INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: DANIEL A. SCOLA, JR.  
 HOFFMANN & BARON, LLP  
 6900 JERICHO TURNPIKE  
 SYOSSET NY 11791

**HOFFMANN & BARON, NY**

**PCT**

**WRITTEN OPINION**

(PCT Rule 66)

Date of Mailing  
 (day/month/year)

**21 JUL 2000**

Applicant's or agent's file reference

500-68 PCT

**REPLY DUE**

within **TWO** months  
 from the above date of mailing

International application No.

PCT/US99/22350

International filing date (day/month/year)

28 SEPTEMBER 1999

Priority date (day/month/year)

01 OCTOBER 1998

International Patent Classification (IPC) or both national classification and IPC  
 Please See Supplemental Sheet.

Applicant

LOCTITE CORPORATION

1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

3. The applicant is hereby invited to reply to this opinion.

**When?** See the time limit indicated above. ~~The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).~~

**How?** By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

**Also** For an additional opportunity to submit amendments, see Rule 66.4.  
 For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.  
 For an informal communication with the examiner, see Rule 66.6.

**If no reply is filed**, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 01 FEBRUARY 2001

Name and mailing address of the IPEA/US  
 Commissioner of Patents and Trademarks  
 Box PCT  
 Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

KATHERINE A. BAREFORD

Telephone No. (703) 308-0661

## WRITTEN OPINION

International application No.

PCT/US99/22350

## I. Basis of the opinion

## 1. With regard to the elements of the international application:\*

☒ the international application as originally filed☒ the description:

pages 1-15, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the claims:

pages 16-21, as originally filed  
pages NONE, as amended (together with any statement) under Article 19  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the drawings:

pages 1-12, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the sequence listing part of the description:

pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  
These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  
☐ the language of publication of the international application (under Rule 48.3(b)).  
☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:

- ☐ contained in the international application in printed form.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority in written form.  
☐ furnished subsequently to this Authority in computer readable form.  
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE  
☒ the claims, Nos. NONE  
☒ the drawings, sheets/fig. NONE

5. ☐ This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".

## WRITTEN OPINION

International application No.

PCT/US99/22350

**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. statement**

Novelty (N)	Claims	(Please See supplemental sheet)	YES
	Claims	(Please See supplemental sheet)	NO
Inventive Step (IS)	Claims	(Please See supplemental sheet)	YES
	Claims	(Please See supplemental sheet)	NO
Industrial Applicability (IA)	Claims	(Please See supplemental sheet)	YES
	Claims	(Please See supplemental sheet)	NO

**2. citations and explanations**

Claims 1-4, 9-10, 18-22, 25, 27, 31 AND 33 lack novelty under PCT Article 33(2) as being anticipated by Fujikawa et al (US 5022343).

Fujikawa teaches an impregnation process. column 1, lines 5-15. At least one mobile vessel in which impregnation of a porous article can be carried out is provided. column 8, lines 5-30 and column 10, lines 10-50. The vessel comprises a chamber for containing a flowable impregnating composition and at least one porous article to be impregnated. column 8, lines 50-65 and column 12, lines 5-20. A series of stations defining an impregnation sequence is provided. column 7, lines 5-40. Each of the stations performs at least one specific impregnation step. column 12, lines 5-60. The vessel is sequentially directed to at least one selected station chosen from the series of stations. column 12, lines 5-60. At least one specific impregnation step is performed at the selected station. column 12, lines 5-60.

claim 2: the series of stations includes a vacuum station to remove air from the porous article. column 12, lines 35-50 and column 11, lines 1-20.

claim 3: the chamber is returned to ambient pressure to perform impregnation. column 13, lines 55-65.

claim 4: a pressure station is provided to form a pressurization step. column 13, lines 10-30.

claim 9: the impregnation steps can be repeated. column 7, lines 5-40.

claim 10: the impregnating material transitions from liquid to solid upon infiltrating the porous article. column 13, lines 30-40.

claim 18: an apparatus is provided with a series of stations to perform impregnating steps. column 7, lines 5-40. At least one mobile vessel is provided. column 7, lines 5-40. Means for directing the vessel are provided. column 12, lines 20-30.

claim 19: a vacuum station is included to remove air from a porous article. column 11, lines 1-20 and column 12, lines 5-60.

claim 20: a vacuum is provided to the mobile vessel. column 11, lines 1-20 and column 12, lines 5-60.

claim 21: a pressure station is provided. column 13, lines 10-30.

(Continued on Supplemental Sheet.)

## WRITTEN OPINION

International application No.

PCT/US99/22350

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**TIME LIMIT:**

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

**CLASSIFICATION:**

The International Patent Classification (IPC) and/or the National classification are as listed below:  
IPC(7): B05D 1/18, 3/00; B05C 3/00, 3/09 and US Cl.: 427/294, 295, 350, 430.1, 435; 118/50, 52, 421

**V. 1. REASONED STATEMENTS:**

The opinion as to Novelty was positive (YES) with respect to claims 5-8, 11-17, 23, 24, 26, 28-30, 32, 34-41.

The opinion as to Novelty was negative (NO) with respect to claims 1-4, 9-10, 18-22, 25, 27, 31, 33.

The opinion as to Inventive Step was positive (YES) with respect to claims NONE.

The opinion as to Inventive Step was negative (NO) with respect to claims 1-41.

The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-41.

The opinion as to Industrial Applicability was negative (NO) with respect to claims NONE.

**V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):**

claim 22: a pressure is provided to the mobile vessel. column 13, lines 10-30.

claim 25: the impregnating material transitions from liquid to solid upon infiltrating the porous article. column 13, lines 30-40.

claim 27: means for deaerating the flowable composition is provided. column 13, lines 10-20.

claim 31: directing means is provided. column 12, lines 20-30.

claim 33: deaerating means and directing means are further provided. column 12, lines 20-30 and column 13, lines 10-20.

Claims 5-7, 11-17, 23, 26, 28-30, 32, 34-41 lack an inventive step under PCT Article 33(3) as being obvious over the prior art as applied in the immediately preceding paragraph and further in view of Kutsuna et al (US 4520045).

Fujikawa teaches all the features of these claims except (1) the reclaiming (claims 5, 6, 7, 15, 16, 17, 23), (2) composition (claim 11, 26), (3) deaerating features (claim 12, 13, 14, 28, 29, 30, 34-41), (4) multiple vessels (claim 30) and (5) directing means (claim 32).

However, Kutsuna teaches a method of impregnating a porous article with material in a vessel. column 1, lines 5-15 and column 4, lines 55-68. A vacuum is provided on the vessel to degas the substrate and to perform impregnation. column 5, lines 1-50. Pressure is also provided on the impregnating material. column 6, lines 10-35. Kutsuna teaches to reclaim excess impregnating material after use. column 6, line 64 through column 7, line 10. Kutsuna further teaches deaerating the impregnating material in its storage vessel. column 5, lines 20-30. The coating can be a heat curing material. column 7, lines 10-15. Kutsuna also teaches using multiple vessels. column 4, lines 50-60.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fujikawa to use the materials, reclaiming and deaerating of Kutsuna with an expectation of similar beneficial results, given that Fujikawa teaches a impregnating method with a vessel, an applied vacuum and applied pressure, and Kutsuna teaches materials, reclaiming and deaerating techniques conventionally used in such process. It would further have been obvious to tip the vessel to retrieve the maximum excess material, so that all the material could exit the vessel. It would further have been obvious to use a computer device to control the movement, so as to have automatic control. It would further have been obvious that the deaeration vessel could be independent of the storage tank as desired, as long as a vacuum was applied on the material before it entered the process vessel.

Claims 8 and 24 lack an inventive step under PCT Article 33(3) as being obvious over the prior art as applied in the immediately preceding paragraph and further in view of Young (US 4311735).

Fujikawa in view of Kutsuna teaches all the features of these claims except the centrifuge step.

However, Young teaches a method of impregnating a porous article with material in a vessel. column 1, lines 1-10 and 64-68. A vacuum is provided on the vessel to degas the substrate and to perform impregnation. column 3, lines 50-60 and column 1, line 64 through column 2, lines 20. Pressure can also be provided on the vessel. column 3, lines 60-65. Young teaches to rotate (centrifuge) the vessel to facilitate impregnation and draining. column 2, lines 15-20 and column 3, lines 55-

WRITTEN OPINION

International application No.

PCT/US99/22350

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 11

65.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fujikawa in view of Kutsuna to use the centrifuge of Young with an expectation of similar beneficial results, given that Fujikawa in view of Kutsuna teaches a impregnating method with a vessel, an applied vacuum and applied pressure, and Young teaches rotating techniques in such a process to improve impregnation results.

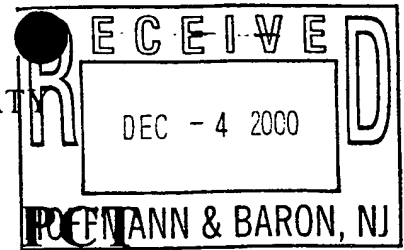
Claims 1-41 meet the criteria set out in PCT Article 33(4), as to industrial applicability, because a method and apparatus is taught for making desirably impregnated articles.

----- NEW CITATIONS -----

NONE

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY



To: DANIEL A. SCOLA, JR.  
HOFFMANN & BARON, LLP  
6900 JERICHO TURNPIKE  
SYOSSET NY 11791

RECEIVED

1 2000

NOTIFICATION OF TRANSMITTAL OF  
INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing  
(day/month/year)

27 NOV 2000

Applicant's or agent's file reference  
500-68 PCT

IMPORTANT NOTIFICATION

International application No.  
PCT/US99/22350

International filing date (day/month/year)  
28 SEPTEMBER 1999

Priority Date (day/month/year)  
01 OCTOBER 1998

Applicant  
LOCTITE CORPORATION

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

KATHERINE A. BAREFORD

Telephone No. (703) 308-0661

Jean Proctor  
Paralegal Specialist



# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

## PCT

### NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

To: DANIEL A. SCOLA, JR.  
HOFFMANN & BARON, LLP  
6900 JERICHO TURNPIKE  
SYOSSET NY 11791

Date of Mailing  
(day/month/year)

27 NOV 2000

Applicant's or agent's file reference  
500-68 PCT

#### IMPORTANT NOTIFICATION

International application No.

PCT/US99/22350

International filing date (day/month/year)

28 SEPTEMBER 1999

Priority Date (day/month/year)

01 OCTOBER 1998

Applicant

LOCTITE CORPORATION

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

KATHERINE A. BAREFORD

Jean Proctor  
Paralegal Specialist

Telephone No. (703) 308-0661

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 30 NOV 2000

WIPO PCT

Applicant's or agent's file reference 500-68 PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US99/22350	International filing date (day/month/year) 28 SEPTEMBER 1999	Priority date (day/month/year) 01 OCTOBER 1998
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.		
Applicant LOCTITE CORPORATION		

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 6 sheets.  
☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 4 sheets.

- This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☒ Certain observations on the international application

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JUL 29 2001  
JUL 29 2001  
MAIL ROOM

Date of submission of the demand  10 APRIL 2000	Date of completion of this report  06 NOVEMBER 2000
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer  KATHERINE A. BAREFORD Jean Proctor Paralegal Specialist
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0661

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/22350

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

☐ the international application as originally filed

☒ the description:  
 pages (See Attached) \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

☒ the claims:  
 pages (See Attached) \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

☒ the drawings:  
 pages (See Attached) \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

☒ the sequence listing part of the description:  
 pages (See Attached) \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☒ The amendments have resulted in the cancellation of:

☒ the description, pages NONE

☒ the claims, Nos. NONE

☒ the drawings, sheets/fig. NONE

### 5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\*Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/22350

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. statement

Novelty (N)	Claims	<u>1-41</u>	YES
	Claims	<u>NONE</u>	NO
Inventive Step (IS)	Claims	<u>1-35</u>	YES
	Claims	<u>36-41</u>	NO
Industrial Applicability (IA)	Claims	<u>1-41</u>	YES
	Claims	<u>NONE</u>	NO

## 2. citations and explanations (Rule 70.7)

Claims 36-41 lack an inventive step under PCT Article 33(3) as being obvious over Fujikawa et al (US 5022343) in view of Kutsuna et al (US 4520045).

Fujikawa teaches an impregnation process. column 1, lines 5-15. At least one mobile vessel in which impregnation of a porous article can be carried out is provided. column 8, lines 5-30 and column 10, lines 10-50. The vessel comprises a chamber for containing a flowable impregnating composition and at least one porous article to be impregnated. column 8, lines 50-65 and column 12, lines 5-20. A series of stations defining an impregnation sequence is provided. column 7, lines 5-40. Each of the stations performs at least one specific impregnation step. column 12, lines 5-60. The vessel is sequentially directed to at least one selected station chosen from the series of stations. column 12, lines 5-60. At least one specific impregnation step is performed at the selected station. column 12, lines 5-60.

The series of stations includes a vacuum station to remove air from the porous article. column 12, lines 35-50 and column 11, lines 1-20.

The chamber is returned to ambient pressure to perform impregnation. column 13, lines 55-65.

A pressure station is provided to form a pressurization step. column 13, lines 10-30.

The impregnation steps can be repeated. column 7, lines 5-40.

The impregnating material transitions from liquid to solid upon infiltrating the porous article. column 13, lines 30-40.

An apparatus is provided with a series of stations to perform impregnating steps. column 7, lines 5-40. At least one mobile vessel is provided. column 7, lines 5-40. Means for directing the vessel are provided. column 12, lines 20-30.

A vacuum is provided to the mobile vessel. column 11, lines 1-20 and column 12, lines 5-60.

A pressure is provided to the mobile vessel. column 13, lines 10-30.

Means for deaerating the flowable composition is provided. column 13, lines 10-20.

(Continued on Supplemental Sheet.)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/22350

**VIII. Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 3, 18-19 and 33 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claims are indefinite for the following reason(s):

Claim 3, line 1, "said chamber to returned to" is grammatically unclear as to what is required.

Claim 18, line 3, "lease" should apparently be "least" for grammatical clarity.

Claim 19, line 2, after "one porous article to" the claim cuts off

Claim 33, line 3, "lease" should apparently be "least" for grammatical clarity.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/22350

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**CLASSIFICATION:**

The International Patent Classification (IPC) and/or the National classification are as listed below:  
IPC(7): B05D 1/18, 3/00; B05C 3/00, 3/09 and US Cl.: 427/294, 295, 350, 430.1, 435; 118/50, 52, 421

**I. BASIS OF REPORT:**

This report has been drawn on the basis of the description,  
page(s) 1-15, as originally filed.  
page(s) NONE, filed with the demand.  
and additional amendments:  
NONE

This report has been drawn on the basis of the claims,  
page(s) 19 AND 21, as originally filed.  
page(s) NONE, as amended under Article 19.  
page(s) NONE, filed with the demand.  
and additional amendments:  
PAGES 16-18 AND 20 FILED WITH THE LETTER OF 21 SEPTEMBER 2000.

This report has been drawn on the basis of the drawings,  
page(s) 1-12, as originally filed.  
page(s) NONE, filed with the demand.  
and additional amendments:  
NONE

This report has been drawn on the basis of the sequence listing part of the description:  
page(s) NONE, as originally filed.  
pages(s) NONE, filed with the demand.  
and additional amendments:  
NONE

**V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):**

Directing means is provided. column 12, lines 20-30.

Fujikawa teaches all the features of these claims except the deaerating features.

However, Kutsuna teaches a method of impregnating a porous article with material in a vessel. column 1, lines 5-15 and column 4, lines 55-68. A vacuum is provided on the vessel to degas the substrate and to perform impregnation. column 5, lines 1-50. Pressure is also provided on the impregnating material. column 6, lines 10-35. Kutsuna teaches to reclaim excess impregnating material after use. column 6, line 64 through column 7, line 10. Kutsuna further teaches deaerating the impregnating material in its storage vessel. column 5, lines 20-30. The coating can be a heat curing material. column 7, lines 10-15. Kutsuna also teaches using multiple vessels. column 4, lines 50-60.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fujikawa to use the materials, reclaiming and deaerating of Kutsuna with an expectation of similar beneficial results, given that Fujikawa teaches a impregnating method with a vessel, an applied vacuum and applied pressure, and Kutsuna teaches materials, reclaiming and deaerating techniques conventionally used in such process. It would further have been obvious to tip the vessel to retrieve the maximum excess material, so that all the material could exit the vessel. It would further have been obvious to use a computer device to control the movement, so as to have automatic control. It would further have been obvious that the deaeration vessel could be independent of the storage tank as desired, as long as a vacuum was applied on the material before it entered the process vessel. As to the independent nature of the deaeration vessel, the Examiner notes the Kutsuna teaches that the deaeration is done in the "storage vessel 6", however, in this process sealant has to be provided to the "storage vessel" from another source, and thus, the "storage vessel" can be a deaeration vessel operating independently from the outside source or storage of the sealant.

Claims 1-41 meet the criteria set out in PCT Article 33(4), as to industrial applicability, because a method and apparatus is taught for making desirably impregnated articles.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/22350

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 11

Claims 1-41 meet the criteria set out in PCT Article 33(2), as to novelty, because the prior art to Fujikawa does not teach the series of stations defining a selection of impregnation sequences or the deaeration features of the claims.

Claims 1-35 meet the criteria set out in PCT Article 33(3), as to inventive step because the cited prior art does not teach or fairly suggest the series of stations defining a selection of impregnation sequences as claimed.

----- NEW CITATIONS -----

NONE

**WHAT IS CLAIMED IS:**

1. An impregnation process, comprising the steps of:
  - a.) providing at least one mobile vessel in which impregnation of a porous article can be carried out, said vessel comprising a chamber for containing a flowable impregnating composition and at least one porous article to be impregnated;
  - b.) providing a series of stations defining a selection of impregnation sequences, each of said stations to perform at least one specific impregnation step on said at least one porous article within said at least one vessel;
  - c.) sequentially directing said at least one vessel to at least one selected station chosen from said series of stations; and
  - d.) performing said at least one specific impregnation step at said at least one selected station.
2. The impregnation process of claim 1, wherein said series of stations includes a vacuum station where a vacuum step is performed on said vessel chamber to remove air from at least one porous article.
3. The impregnation process of claim 2, wherein said chamber to returned to ambient pressure to initiate impregnation of said porous article.
4. The impregnation process of claim 3, wherein said series of stations includes a pressure station where a pressurization step is performed on said at least one porous article to complete said impregnation of said porous article.
5. The impregnation process of claim 1, further comprising the step of reclaiming said flowable impregnating composition.
6. The impregnation process of claim 5, wherein said series of stations includes a flowable impregnating composition retrieval station where said reclaiming step is performed.
7. The impregnation process of claim 6, wherein said reclaiming step includes



tipping said at least one vessel horizontally so as to pour said impregnating composition therefrom.

8. The impregnation process of claim 1, wherein said series of stations includes a centrifuge station where a centrifuge step is performed on said at least one porous article to expel excess flowable impregnating composition from an exterior surface thereof.

9. An impregnation process, comprising the steps of:

- a.) providing at least one mobile vessel containing a flowable impregnating composition and at least one porous article to be impregnated;
- b.) providing a series of stations defining a selection of impregnation sequences, each of said stations to perform at least one specific impregnation step on said at least one porous article within said at least one vessel;
- c.) sequentially directing said at least one vessel to at least one selected station chosen from said series of stations;
- d.) performing said at least one specific impregnation step at said at least one selected station; and
- e.) repeating steps c.) and d.) until said at least one porous article is impregnated with said flowable impregnating composition.

10. The impregnation process of claim 9, wherein said flowable impregnating composition transitions from liquid to solid upon infiltrating a porosity of said porous article.

11. The impregnation process of claim 10, wherein said flowable impregnating composition is selected from the group of curing compositions consisting of anaerobic, heat, moisture, radiation and evaporation curing compositions.

12. The impregnation process of claim 9, further comprising the step of de-aerating said flowable impregnating composition prior to providing said flowable impregnating composition to said at least one vessel.

13. The impregnation process of claim 12, wherein said de-aeration step is executed in an independent de-aeration vessel.

14. The system according to claim 13, wherein said de-aeration vessel retains said flowable impregnant composition therein during application of a vacuum thereon to remove air from within said flowable impregnant composition.

15. The impregnation process of claim 9, further comprising the step of reclaiming said flowable impregnation composition.

16. The impregnation process of claim 15, wherein said series of stations includes a flowable impregnating composition retrieval station where said reclaiming step is performed.

17. The impregnating process of claim 16, wherein said reclaiming step includes tipping said at least one vessel horizontally so as to pour said flowable impregnating composition therefrom.

18. A system for impregnating porous articles comprising:

(a) a series of stations defining a selection of impregnated sequences wherein each of said stations performs at least one specific impregnation step for impregnating one or more porous articles;

(b) at least one mobile vessel for retaining a flowable impregnating composition and said one or more porous articles to be impregnated, for transporting said composition and said at least one article to said series of stations and for providing a closed environment for conducting said impregnation steps; and

(c) means for directing said vessel sequentially to said series of stations.

19. The system according to claim 18, wherein said series of stations includes a vacuum station where a vacuum step is performed on said at least one porous article to

29. The system according to claim 28, wherein said de-aeration vessel retains said flowable impregnant composition therein during application of a vacuum thereon to remove dissolved air from within said flowable impregnant composition.

30. The system according to claim 18, wherein each of said stations comprises a plurality of processing positions for accommodating multiple vessels simultaneously.

31. The system according to claim 18, wherein said directing means includes a hoist, conveyor, rails, robot, human operator, forklift or other means for transporting said at least one mobile vessel to each of said stations.

32. The system according to claim 18, wherein said directing means includes a programmable logic controller, PC based controller or other means of executing machine logic.

33. A system for impregnating porous articles, comprising:  
a series of stations defining a selection of impregnation sequences wherein each of said stations performs at least one specific impregnation step for impregnating one or more porous articles;  
at least one mobile vessel for retaining a flowable impregnating composition and said one or more porous articles to be impregnated, wherein said flowable impregnating composition requires de-aeration prior to use; said vessel being adapted to transport said composition and said at least one porous article to said series of stations; and being adapted to provide a closed environment for conducting said impregnation step;  
means for directing said vessel sequentially to said series of stations; and  
means for de-aerating said flowable impregnating composition.

34. The system according to claim 33, wherein said de-aerating means includes a de-aeration vessel independent of a flowable impregnant storage tank and process vessel.

# PCT

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum) 500-68 PCT

**Box No. I TITLE OF INVENTION**

MOBILE VESSEL METHOD AND SYSTEM FOR IMPREGNATING POROUS ARTICLES

**Box No. II APPLICANT**

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

LOCTITE CORPORATION  
Hartford Square North  
Ten Columbus Boulevard  
Hartford, CT 06106  
US

☐ This person is also inventor.

Telephone No.  
(860) 520-5000

Facsimile No.  
(860) 520-5073

Teleprinter No.

State (that is, country) of nationality:  
US

State (that is, country) of residence:  
US

This person is applicant for the purposes of: ☐ all designated States ☒ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

**Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)**

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

HEMSEN, Steven J.  
73 Deerbrooke Circle  
Southington, CT 06489  
US

This person is:

☐ applicant only

☒ applicant and inventor

☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:  
US

State (that is, country) of residence:  
US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

**Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☒ agent ☐ common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

SCOLA, Daniel A., Jr.  
HOFFMANN & BARON, LLP  
6900 Jericho Turnpike  
Syosset, NY 11791  
US

Telephone No.  
(973) 331-1700

Facsimile No.  
(973) 331-1717

Teleprinter No.

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

**Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTOR(S)**

*If none of the following sub-boxes is used, this sheet is not to be included in the request.*

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

**Box No.V DESIGNATION OF STATES**

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

**Regional Patent**

- ☒ **AP ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ **EA Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP European Patent:** AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line) .....

**National Patent (if other kind of protection or treatment desired, specify on dotted line):**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> AL Albania .....                               | <input checked="" type="checkbox"/> LS Lesotho .....                                   |
| <input checked="" type="checkbox"/> AM Armenia .....                               | <input checked="" type="checkbox"/> LT Lithuania .....                                 |
| <input checked="" type="checkbox"/> AT Austria .....                               | <input checked="" type="checkbox"/> LU Luxembourg .....                                |
| <input checked="" type="checkbox"/> AU Australia .....                             | <input checked="" type="checkbox"/> LV Latvia .....                                    |
| <input checked="" type="checkbox"/> AZ Azerbaijan .....                            | <input checked="" type="checkbox"/> MD Republic of Moldova .....                       |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina .....                | <input checked="" type="checkbox"/> MG Madagascar .....                                |
| <input checked="" type="checkbox"/> BB Barbados .....                              | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia ..... |
| <input checked="" type="checkbox"/> BG Bulgaria .....                              | <input checked="" type="checkbox"/> MN Mongolia .....                                  |
| <input checked="" type="checkbox"/> BR Brazil .....                                | <input checked="" type="checkbox"/> MW Malawi .....                                    |
| <input checked="" type="checkbox"/> BY Belarus .....                               | <input checked="" type="checkbox"/> MX Mexico .....                                    |
| <input checked="" type="checkbox"/> CA Canada .....                                | <input checked="" type="checkbox"/> NO Norway .....                                    |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein .....  | <input checked="" type="checkbox"/> NZ New Zealand .....                               |
| <input checked="" type="checkbox"/> CN China .....                                 | <input checked="" type="checkbox"/> PL Poland .....                                    |
| <input checked="" type="checkbox"/> CU Cuba .....                                  | <input checked="" type="checkbox"/> PT Portugal .....                                  |
| <input checked="" type="checkbox"/> CZ Czech Republic .....                        | <input checked="" type="checkbox"/> RO Romania .....                                   |
| <input checked="" type="checkbox"/> DE Germany .....                               | <input checked="" type="checkbox"/> RU Russian Federation .....                        |
| <input checked="" type="checkbox"/> DK Denmark .....                               | <input checked="" type="checkbox"/> SD Sudan .....                                     |
| <input checked="" type="checkbox"/> EE Estonia .....                               | <input checked="" type="checkbox"/> SE Sweden .....                                    |
| <input checked="" type="checkbox"/> ES Spain .....                                 | <input checked="" type="checkbox"/> SG Singapore .....                                 |
| <input checked="" type="checkbox"/> FI Finland .....                               | <input checked="" type="checkbox"/> SI Slovenia .....                                  |
| <input checked="" type="checkbox"/> GB United Kingdom .....                        | <input checked="" type="checkbox"/> SK Slovakia .....                                  |
| <input checked="" type="checkbox"/> GE Georgia .....                               | <input checked="" type="checkbox"/> SL Sierra Leone .....                              |
| <input checked="" type="checkbox"/> GH Ghana .....                                 | <input checked="" type="checkbox"/> TJ Tajikistan .....                                |
| <input checked="" type="checkbox"/> GM Gambia .....                                | <input checked="" type="checkbox"/> TM Turkmenistan .....                              |
| <input checked="" type="checkbox"/> GW Guinea-Bissau .....                         | <input checked="" type="checkbox"/> TR Turkey .....                                    |
| <input checked="" type="checkbox"/> HR Croatia .....                               | <input checked="" type="checkbox"/> TT Trinidad and Tobago .....                       |
| <input checked="" type="checkbox"/> HU Hungary .....                               | <input checked="" type="checkbox"/> UA Ukraine .....                                   |
| <input checked="" type="checkbox"/> ID Indonesia .....                             | <input checked="" type="checkbox"/> UG Uganda .....                                    |
| <input checked="" type="checkbox"/> IL Israel .....                                | <input checked="" type="checkbox"/> US United States of America .....                  |
| <input checked="" type="checkbox"/> IS Iceland .....                               | <input checked="" type="checkbox"/> UZ Uzbekistan .....                                |
| <input checked="" type="checkbox"/> JP Japan .....                                 | <input checked="" type="checkbox"/> VN Viet Nam .....                                  |
| <input checked="" type="checkbox"/> KE Kenya .....                                 | <input checked="" type="checkbox"/> YU Yugoslavia .....                                |
| <input checked="" type="checkbox"/> KG Kyrgyzstan .....                            | <input checked="" type="checkbox"/> ZW Zimbabwe .....                                  |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea ..... |  |
| <input checked="" type="checkbox"/> KR Republic of Korea .....                     |  |
| <input checked="" type="checkbox"/> KZ Kazakhstan .....                            |  |
| <input checked="" type="checkbox"/> LC Saint Lucia .....                           |  |
| <input checked="" type="checkbox"/> LK Sri Lanka .....                             |  |
| <input checked="" type="checkbox"/> LR Liberia .....                               |  |

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet:

☐ .....  
☐ .....

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

**Supplemental Box***If the Supplemental Box is not used, this sheet need not be included in the request.*

1. If, in any of the Boxes, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No. ..." [indicate the number of the Box] and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:

- (i) if more than two persons are involved as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "**the States indicated in the Supplemental Box**" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "**patent of addition**," or "**certificate of addition**," or if, in Box No. V., the name of the United States of America is accompanied by an indication "**continuation**" or "**continuation-in-part**": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI;
- (vii) if, in Box No. VI, the earlier application is an ARIPO application: in such case, write "Continuation of Box No. VI", specify the number of the item corresponding to that earlier application and indicate at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed.

2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

3. If the applicant claims, in respect of any designated Office, the benefits of provisions of the national law concerning non-prejudicial disclosures or exceptions to lack of novelty: in such case, write "Statement concerning non-prejudicial disclosures or exceptions to lack of novelty" and furnish that statement below.

Charles R. Hoffmann, Reg. No. 24,102; Ronald J. Barron, Reg. No. 29,281; Gerald T. Bodner, Reg. No. 30,449; Alan M. Sack, Reg. No. 31,874; A. Thomas Kammer, Reg. No. 28,226; R. Glenn Schroeder, Reg. No. 34,720; Glenn T. Henneberger, Reg. No. 36,074; Irving N. Feit, Reg. No. 28,601; Anthony E. Bennett, Reg. No. 40,910; Gregory A. Bachmann, Reg. No. 41,593; Steven T. Zuschlag, Reg. No. 43,309; Susan A. Sipos, Reg. No. 43,128 and Kevin E. McDermott, Reg. No. 35,946, each of them of HOFFMANN & BARON, LLP, 6900 Jericho Turnpike, Syosset, NY 11791; and Daniel A. Scola, Jr., Reg. No. 29,855; Salvatore J. Abbruzzese, Reg. No. 30,152; Kirk M. Miles, Reg. No. 37,891; Robert F. Chisholm, Reg. No. 39,939; Kellyanne Merkel, Reg. No. 43,800; John S. Sopko, Reg. No. 41,321; Barry H. Jacobsen, Reg. No. 43,689 and Keith R. Lange, Reg. No. 44,201, each of them of HOFFMANN & BARON, LLP, 1055 Parsippany Boulevard, Parsippany, NJ 07054, and Steven C. Bauman of Loctite Corporation, Hartford Square North, Ten Columbus Boulevard, Hartford, CT 06106.

Box No. VI PRIORITY CLAIM		<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.		
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application:* regional Office	international application: receiving Office
item (1) 1 October 1998	60/102,690	US		
item (2)				
item (3)				

☒ The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): 1

\* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

## Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA)  
(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA/us

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year) Number Country (or regional Office)

## Box No. VIII CHECK LIST: LANGUAGE OF FILING

This international application contains the following number of sheets:

request : 5  
description (excluding sequence listing part) : 15  
claims : 6  
abstract : 1  
drawings : 6  
sequence listing part of description :  
Total number of sheets : 33

This international application is accompanied by the item(s) marked below:

1. ☒ fee calculation sheet
2. ☒ separate signed power of attorney
3. ☒ copy of general power of attorney; reference number, if any:
4. ☐ statement explaining lack of signature
5. ☐ priority document(s) identified in Box No. VI as item(s):
6. ☐ translation of international application into (language):
7. ☐ separate indications concerning deposited microorganism or other biological material
8. ☐ nucleotide and/or amino acid sequence listing in computer readable form
9. ☒ other (specify): Transmittal Letter, w/Express Mail; Postcard

Figure of the drawings which should accompany the abstract:

Language of filing of the international application:

English

## Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

  
Kellyanne Merkel  
Agent for Applicant

For receiving Office use only		2. Drawings:  <input type="checkbox"/> received:  <input type="checkbox"/> not received:
1. Date of actual receipt of the purported international application:		
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 11(2):		
5. International Searching Authority (if two or more are competent): ISA/	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid	

For International Bureau use only
Date of receipt of the record copy by the International Bureau:



# PCT

## FEE CALCULATION SHEET

### Annex to the Request

For receiving Office use only

International application No.

Date stamp of the receiving Office

Applicant's or agent's  
file reference

500-68 PCT

Applicant  
Loctite Corporation

#### CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE ..... 240.00 T

2. SEARCH FEE ..... 700.00 S

International search to be carried out by US

(If two or more International Searching Authorities are competent in relation to the international application, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FEE

#### Basic Fee

The international application contains 33 sheets.

first 30 sheets ..... b<sub>1</sub>

3 x \$10.00 = 30.00 b<sub>2</sub>

remaining sheets additional amount

Add amounts entered at b<sub>1</sub> and b<sub>2</sub> and enter total at B ..... 30.00 B

#### Designation Fees

The international application contains 10 designations.

10 x 105.00 = 1,050.00 D

number of designation fees amount of designation fee payable (maximum 11)

Add amounts entered at B and D and enter total at I ..... 1,080.00 I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and

4. FEE FOR PRIORITY DOCUMENT (if applicable) ..... 15.00 P

5. TOTAL FEES PAYABLE

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

2,035.00

TOTAL

☐ The designation fees are not paid at this time.

#### MODE OF PAYMENT

☐ authorization to charge  
deposit account (see below)

☐ bank draft

☐ coupons

☒ cheque

☐ cash

☐ other (specify):

☐ postal money order

☐ revenue stamps

#### DEPOSIT ACCOUNT AUTHORIZATION (this mode of payment may not be available at all receiving Offices)

The RO/ US ☐ is hereby authorized to charge the total fees indicated above to my deposit account.

☒ is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.

☒ is hereby authorized to charge the fee for preparation and transmittal of the priority document to the International Bureau of WIPO to my deposit account.

08-2461

28/09/99

Deposit Account Number

Date (day/month/year)

Signature

**PCT****POWER OF ATTORNEY***(for an international application filed under the Patent Cooperation Treaty)***(PCT Rule 90.4)**

The undersigned applicant(s) *(Names should be indicated as they appear in the request):*

Steven J. Hensen, 73 Deerbrooke Circle, Southington, CT 06489

hereby appoints (appoint) the following person as:



agent



common representative

**Name and address**

*(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

Daniel A. Scola, Jr., Salvatore J. Abbruzzese, Kirk M. Miles, Robert F. Chisholm, Kellyanne Merkel, John S. Sopko, Barry H. Jacobsen, and Keith R. Lange, each of them of HOFFMANN & BARON, LLP, 1055 Parsippany Boulevard, Parsippany, New Jersey 07054 and Charles R. Hoffmann, Ronald J. Baron, Gerald T. Bodner, Alan M. Sack, A. Thomas Kammer, R. Glenn Schroeder, Glenn T. Henneberger, Irving N. Feit, Anthony E. Bennett, Gregory A. Bachmann, Steven T. Zuschlag, Susan A. Sipos, William D. Schmidt, and Kevin E. McDermott each of them of HOFFMANN & BARON, LLP, 6900 Jericho Turnpike, Syosset, New York 11791; and BAUMAN, Steven C. of Loctite Corporation, Hartford Square North, Ten Columbus Blvd., Hartford, CT 06106.

to represent the undersigned before:



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with the international application identified below:

Title of the invention: MOBILE VESSEL METHOD AND SYSTEM FOR IMPREGNATING POROUS

Applicant's or agent's file reference: 500-68 PCT

International application number (if already available):

filed with the following Office United States as receiving Office  
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) *(where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):*

  
Steven J. Hensen

Date:

9/27/99

# PCT

## General Power of Attorney

(for several international applications filed under the Patent Cooperation Treaty)  
(PCT Rule 90.5)

*The undersigned:*

**LOCTITE CORPORATION**  
Hartford Square North  
10 Columbus Boulevard  
Hartford, Connecticut 06106-5108  
United States of America

*hereby appoints:*

SCOLA, Daniel A. Jr.; ABBRUZZESE, Salvatore J.; MILES, Kirk M.;  
CHISHOLM, Robert F.; MERKEL, Kellyanne; SOPKO, John S.; BIRD,  
Nancy A.; and JACOBSEN, Barry H.;

each of them of Hoffmann & Baron, LLP, 1055 Parsippany Boulevard,  
Parsippany, New Jersey 07054;

*and*

HOFFMANN, Charles R.; BARON, Ronald J.; BODNER, Gerald T.;  
SACK, Alan M.; KAMMER, A. Thomas; FEIT, Irving N.; SCHROEDER,  
R. Glenn; HENNEBERGER, Glenn T.; TRAN, Jessica H.; BENNETT,  
Anthony F.; BACHMANN, Gregory W.; ZUSCHLAG, Steven T.; SIPOS,  
Susan A.; SCHMIDT, William D.; and McDERMOTT, Kevin E.;

each of them of Hoffmann & Baron, LLP, 6900 Jericho Turnpike, Syosset,  
New York 11791;

*and*

**BAUMAN, Steven C.**

of Loctite Corporation, Hartford Square North, Ten Columbus  
Boulevard, Hartford, Connecticut 06106-5108;

*as agent to represent the undersigned before all the competent International Authorities in  
connection with any and all international applications filed by the undersigned with the  
United States Patent & Trademark Office as Receiving Office and to make or receive  
payments on behalf of the undersigned.*

**LOCTITE CORPORATION**

By: 

Name: Steven C. Bauman

Title: Counsel, Intellectual Property

Date: 7/2/99